

a layer covering tops of elements of said second array; and
a spring for suspending said first array relative to said second array, said spring being attached to said layer.

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~~6~~. (Amended) The deformable mirror according to claim ²~~5~~, wherein said stationary elements and said movable elements are circular.

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~~7~~. (Amended) The deformable mirror according to claim ²~~5~~, wherein said stationary elements and said movable elements are planar.

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~~8~~. (Amended) The deformable mirror according to claim ²~~5~~, wherein said layer is attached directly to said reflective surface.

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~~9~~. (Amended) A deformable mirror comprising:

a vertical electrostatic comb drive;

a reflective surface attached to said vertical comb drive, wherein said vertical comb drive comprises a first array of stationary elements and a second array of moving elements correspondingly interspersed with said first array, said reflective surface being attached to said second array and defining a plane; said vertical comb drive, when actuated, displacing said surface in a direction orthogonal to the plane thereof;

a layer covering tops of elements of said second array; and

a post attaching said layer to said reflective surface.

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~~11~~. (Amended) The deformable mirror according to claim ²~~8~~, wherein voltage is applied to each stationary element of said first array individually or each moving element of said second array individually.

Sub F₁

14. (Twice Amended) A deformable mirror comprising:

a vertical electrostatic comb drive including an array of vertical comb actuators, wherein said vertical comb drive includes a first array of stationary elements and a second array of moving elements correspondingly interspersed with said first array;

a reflective surface attached to said vertical comb drive, said reflective surface being attached to said second array and defining a plane, said reflective surface being displaced in a direction orthogonal ^{to the plane} thereof when said vertical comb drive is actuated; and

springs for individually suspending each of said second array of each actuator in said array.

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~~16~~. (Thrice Amended) The deformable mirror according to claim ²~~5~~, wherein

said vertical electrostatic comb drive comprises plurality of cavities and teeth interdigitally mounted with said cavities, said reflective surface being attached to said teeth.

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~~23~~. (Amended) The displaceable surface of claim ¹⁶~~29~~ wherein the vertical electrostatic comb drive is provided on a substrate and said surface is generally parallel to said substrate.

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~~24~~. (Amended) The displaceable surface of claim ¹⁶~~29~~ wherein said displaceable surface includes plural vertical electrostatic comb drives to which said surface is attached, each said vertical electrostatic comb drive locally displacing said surface in a direction generally orthogonal to a plane generally defined by said surface.

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~~26~~. (Twice Amended) The displaceable surface of claim ¹⁶~~29~~ further comprising a mirror mounted substantially parallel to said surface.

Sub F₂ 29. (Amended) A displaceable surface comprising:
a vertical electrostatic comb drive;
a surface attached to said vertical comb drive, wherein said vertical comb drive comprises a first array of stationary elements and a second array of moving elements correspondingly interspersed with said first array, said surface defining a plane and being attached to said second array, said surface being displaced in a direction orthogonal ^{to the plane} thereof when said vertical electrostatic comb drive is actuated;
a layer covering tops of elements of said second array; and
a spring for suspending said first array relative to said second array, said spring being attached to said layer.

21 16
30. (Amended) The displaceable surface according to claim 29, wherein said stationary elements and said movable elements are circular.

22 16
31. (Amended) The displaceable surface according to claim 29, wherein said stationary elements and said movable elements are planar.

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32. (Twice Amended) The displaceable surface according to claim 29, wherein said layer is attached directly to said ~~reflective~~ surface.

J.P.
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Sub F₃ 33. (Thrice Amended) A displaceable surface comprising:
a vertical electrostatic comb drive;
a surface attached to said vertical comb drive, wherein said vertical comb drive comprises a first array of stationary elements and a second array of moving elements correspondingly interspersed with said first array, said surface defining a plane and being attached to said second array, said surface being displaced in a direction orthogonal to the plane thereof when said vertical electrostatic comb drive is actuated;

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a layer covering tops of elements of said second array; and
a post attaching said layer to said reflective surface.

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~~35.~~ (Amended) The displaceable surface according to claim ¹⁶~~29~~, wherein voltage is applied to each stationary element of said first array individually or each moving element of said second array individually.

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~~36.~~ (Amended) The displaceable surface according to claim ¹⁶~~29~~, wherein said vertical comb drive comprises an array of vertical comb actuators.

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~~38.~~ (Amended) A displaceable surface comprising:
a vertical electrostatic comb drive including an array of vertical comb actuators;

a surface attached to said vertical comb drive, wherein said vertical comb drive comprises a first array of stationary elements and a second array of moving elements correspondingly interspersed with said first array, said surface defining a plane and being attached to said second array, said surface being displaced in a direction orthogonal to the plane thereof when said vertical electrostatic comb drive is actuated; and

springs for individually suspending each of said second array of each actuator in said array.

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~~39.~~ (Twice Amended) The displaceable surface according to claim ³³~~38~~, further comprising an anchor for supporting said springs.

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~~40.~~ (Twice Amended) The displaceable surface according to claim ¹⁶~~29~~, wherein said vertical comb drive comprises plurality of cavities and teeth interdigitally mounted with said cavities, said surface being attached to said teeth.

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(Amended) The displaceable surface of claim ~~29~~, wherein said surface is reflective.